

10/5/1 (Item 1 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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014659303 **Image available**
 WPI Acc No: 2002-480007/200251
 XRPX Acc No: N02-379059

Removable fixing device for neuro implants, especially retina implants,
 has fixing head that allows implant to be removed from beneath it
 Patent Assignee: TD VERW GMBH (TDTD-N); INTELLIGENT IMPLANTS GMBH (INTE-N)
 Inventor: ECKMILLER R

Number of Countries: 089 Number of Patents: 003
 Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|--------------|------|----------|----------------|------|----------|----------|
| WO 200243631 | A2 | 20020606 | WO 2001EP14077 | A | 20011203 | 200251 B |
| DE 10060029 | A1 | 20020613 | DE 1060029 | A | 20001201 | 200251 |
| AU 200219150 | A | 20020611 | AU 200219150 | A | 20011203 | 200264 |

Priority Applications (No Type Date): DE 1060029 A 20001201

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
|--------------|------|-----|----|-------------|--------------|
| WO 200243631 | A2 | G | 13 | A61F-009/00 | |

Designated States (National): AE AL AM AT AU AZ BA BB BG BR BY CA CH CN
 CU CZ DK EE ES FI GB GD GE GH GM HU ID IL IN IS JP KE KG KP KR KZ LC LK
 LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL
 TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
 IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZUG ZM ZW

DE 10060029 A1 A61F-002/14

AU 200219150 A A61F-009/00 Based on patent WO 200243631

Abstract (Basic): WO 200243631 A2

NOVELTY - The head of the fixing device (3) extends over the
 implant (2) on the opposite side to the retina. The fixing device can
 be removed during the re-explanation or fixing process by pulling the
 microcontact foil beneath the head.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for (a)
 a fixing device with a head which extends over the implant surface and
 which can be pivoted, folded or pulled out in order to release the
 implant, and (b) a fixing device with a head which can be releasably
 secured in place by an anchor structure extending through the retina,
 pigment epithel and vein wall.

USE - None given.

ADVANTAGE - **Neuro** implants can be releasably fixed to retina
 tissue, enabling a defective implant to be replaced, or a more up to
 date implant to be inserted in place of the old one.

DESCRIPTION OF DRAWING(S) - Figure 1 shows a section of tissue from
 the retina with a microcontact film lying epiretinally on top of it,
 held in place by pivotable fixing devices.

Retina tissue section (1)

Microcontact film (2)

Fixing device (3)

Pivot arm (4)

Release position of pivot arm (5)

Movement of pivot arm into release position (6)

pp; 13 DwgNo 1/3

Title Terms: REMOVE; FIX; DEVICE; **NEURO** ; IMPLANT; RETINA; IMPLANT; FIX;
 HEAD; ALLOW; IMPLANT; REMOVE; BENEATH

Derwent Class: P32

International Patent Class (Main): A61F-002/14; A61F-009/00

File Segment: EngPI

10/5/2 (Item 2 from file: 350)
 DIALOG(R)File 350:Derwent WPIX
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014172377 **Image available**

WPI Acc No: 2001-656605/200175

XRPX Acc No: N01-489484

Micro-contact structure for neuro -prostheses for implantation on nerve tissue has multiple contacts on two dimensional carrier panel which can be folded

Patent Assignee: INTELLIGENT IMPLANTS GMBH (INTE-N); BECKER M (BECK-I); ECKMILLER R (ECKM-I); HUNERMANN R (HUNE-I)

Inventor: **BECKER M ; ECKMILLER R ; HUENERMANN R ; HUNERMANN R**

Number of Countries: 029 Number of Patents: 004

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|----------------|------|----------|----------------|------|----------|----------|
| US 20010037061 | A1 | 20011101 | US 2001771283 | A | 20010126 | 200175 B |
| DE 10020846 | A1 | 20011206 | DE 1020846 | A | 20000428 | 200203 |
| WO 200183025 | A1 | 20011108 | WO 2000EP12713 | A | 20001214 | 200212 |
| AU 200131589 | A | 20011112 | AU 200131589 | A | 20001214 | 200222 |

Priority Applications (No Type Date): DE 1020846 A 20000428

Patent Details:

| Patent No | Kind | Lan Pg | Main IPC | Filing Notes |
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| US 20010037061 | A1 | | 8 A61B-005/04 | |
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| DE 10020846 | A1 | | A61F-002/02 | |
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| WO 200183025 | A1 G | | A61N-001/05 | |
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Designated States (National): AU BR CA IL JP KR MX NZ SG US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE TR

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| AU 200131589 | A | | A61N-001/05 | Based on patent WO 200183025 |
|--------------|---|--|-------------|------------------------------|

Abstract (Basic): US 20010037061 A1

NOVELTY - The micro-contact structure for **neuro** -prostheses has multiple contacts formed on a two dimensional carrier which has at least two regions which can move relative to one another. The regions can assume a base position and an operating position. The size of the micro-contact structure is collapsed during surgical transportation to the implant point by moving the relatively movable sections.

USE - For implantation at mammalian muscle tissue, or blood vessels or body organs

ADVANTAGE - Allows ease of positioning implant

DESCRIPTION OF DRAWING(S) - Drawing shows plan view of implant pp; 8 DwgNo 1/4

Title Terms: MICRO; CONTACT; STRUCTURE; **NEURO** ; PROSTHESIS; IMPLANT; NERVE ; TISSUE; MULTIPLE; CONTACT; TWO; DIMENSION; CARRY; PANEL; CAN; FOLD

Derwent Class: P31; P34

International Patent Class (Main): A61B-005/04; A61F-002/02; A61N-001/05

International Patent Class (Additional): A61F-002/14

File Segment: EngPI

10/5/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014141156 **Image available**

WPI Acc No: 2001-625367/200172

XRPX Acc No: N01-466125

Secure operating method for neuro -prosthesis in central nervous system within skull, by performing data transmission when authorisation signal transmitted from external to internal components is checked and accepted

Patent Assignee: INTELLIGENT IMPLANTS GMBH (INTE-N)

Inventor: **BECKER M ; ECKMILLER R ; HUENERMANN R ; ORTMANN V**

Number of Countries: 029 Number of Patents: 003

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|--------------|------|----------|---------------|------|----------|----------|
| WO 200147598 | A1 | 20010705 | WO 2000EP6666 | A | 20000713 | 200172 B |
| DE 19962915 | A1 | 20010906 | DE 1062915 | A | 19991223 | 200172 |
| AU 200068231 | A | 20010709 | AU 200068231 | A | 20000713 | 200172 |

Priority Applications (No Type Date): DE 1062915 A 19991223

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 200147598 A1 G 42 A61N-001/36
Designated States (National): AU BR CA CN IL JP KR MX NZ SG US
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU
MC NL PT SE
DE 19962915 A1 A61F-002/00
AU 200068231 A A61N-001/36 Based on patent WO 200147598

Abstract (Basic): WO 200147598 A1

NOVELTY - At least one **neuro** -prosthesis component is implanted so that it is in contact with a nerve tissue or is associated with a nerve tissue in such a way that they interact. The **neuro** -prosthesis is only operated during the period of specific authorisation, and/or the system comprises an authorised data transmission between external components and implanted components, and/or an authorised communication for monitoring and/or fixing the **neuro** -prosthesis operating status, and/or the communication between the external and implanted components is encrypted.

USE - None given.

ADVANTAGE - Prevents unauthorised access to data.

DESCRIPTION OF DRAWING(S) - The drawing shows a protection system for a **neuro** -prosthesis.
pp; 42 DwgNo 1/5

Title Terms: SECURE; OPERATE; METHOD; **NEURO** ; PROSTHESIS; CENTRAL; NERVE; SYSTEM; SCULL; PERFORMANCE; DATA; TRANSMISSION; AUTHORISE; SIGNAL; TRANSMIT; EXTERNAL; INTERNAL; COMPONENT; CHECK; ACCEPT

Derwent Class: P32; P34; S05; T01; W02

International Patent Class (Main): A61F-002/00; A61N-001/36

International Patent Class (Additional): A61N-001/372

File Segment: EPI; EngPI

10/5/4 (Item 4 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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012126555 **Image available**

WPI Acc No: 1998-543467/199847

XRPX Acc No: N98-423049

Apparatus for promoting selective stimulation of defective retina - employs portable laser and video prosthetic in form of conventional spectacles which cause laser beam to stimulate relevant neuron groups

Patent Assignee: BECKER M (BECK-I)

Inventor: **BECKER M**

Number of Countries: 001 Number of Patents: 001

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week |
|-------------|------|----------|-------------|------|----------|----------|
| DE 19713612 | A1 | 19981015 | DE 1013612 | A | 19970402 | 199847 B |

Priority Applications (No Type Date): DE 1013612 A 19970402

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
DE 19713612 A1 8 A61F-009/08

Abstract (Basic): DE 19713612 A

An apparatus for selectively stimulating one or a number of nerve cells in the defective retina of a human eye employs a portable laser source whose beam is projected onto the retina via the natural lens of the eye.

The laser unit and system controller can be conveniently carried in a small container at the waist with connections made by coaxial and fibre-optics cables to a prosthetic assembly in the form of conventional spectacles.

These incorporate a photosensor array for detecting the wearer's forward environment, a fixed focusing mirror and a beam steering reflector responding to signals from a pupil position sensor which combine to regulate stimulation of the appropriate retinal **neurons** .

USE - Provides retinal stimulation in situations where disease has

impaired efficient functioning.

ADVANTAGE - Is able to be more precise in terms of effect on individual cells or small groups of cells than current systems employing electrical stimulation via electrodes. Does not require expense and risks of invasive surgery which attends implantation of micro-photodiodes.

Dwg.2/4

Title Terms: APPARATUS; PROMOTE; SELECT; STIMULATING; DEFECT; RETINA; EMPLOY; PORTABLE; LASER; VIDEO; PROSTHESIS; FORM; CONVENTION; SPECTACLE; CAUSE; LASER; BEAM; STIMULATING; RELEVANT; **NEURON** ; GROUP

Derwent Class: P32; P34; S05

International Patent Class (Main): A61F-009/08

International Patent Class (Additional): A61N-005/06

File Segment: EPI; EngPI

10/5/5 (Item 5 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012040911 **Image available**

WPI Acc No: 1998-457821/199840

XRPX Acc No: N98-357358

Encoder for visual neuroprosthetic providing active vision. - uses adjustable receptive field characteristic filters inserted in signal path between photosensor array and implanted stimulation and registration interface

Patent Assignee: INTELLIGENT IMPLANTS GMBH (INTE-N); TD VERW GMBH (TDTD-N); ECKMILLER R (ECKM-I)

Inventor: **ECKMILLER R**

Number of Countries: 075 Number of Patents: 023

Patent Family:

| Patent No | Kind | Date | Applicat No | Kind | Date | Week | |
|---------------|------|----------|---------------|------|----------|--------|---|
| DE 19707046 | A1 | 19980827 | DE 1007046 | A | 19970221 | 199840 | B |
| WO 9836793 | A2 | 19980827 | WO 98EP971 | A | 19980220 | 199840 | |
| WO 9836795 | A1 | 19980827 | WO 98EP968 | A | 19980220 | 199840 | |
| WO 9837691 | A1 | 19980827 | WO 98EP970 | A | 19980220 | 199840 | |
| AU 9864990 | A | 19980909 | AU 9864990 | A | 19980220 | 199905 | |
| AU 9867223 | A | 19980909 | AU 9867223 | A | 19980220 | 199905 | |
| AU 9868220 | A | 19980909 | AU 9868220 | A | 19980220 | 199905 | |
| EP 969896 | A2 | 20000112 | EP 98913568 | A | 19980220 | 200008 | |
| | | | WO 98EP971 | A | 19980220 | | |
| DE 19880174 | T | 20000105 | DE 1080174 | A | 19980220 | 200009 | |
| | | | WO 98EP970 | A | 19980220 | | |
| EP 971770 | A1 | 20000119 | EP 98912345 | A | 19980220 | 200009 | |
| | | | WO 98EP968 | A | 19980220 | | |
| BR 9807260 | A | 20000502 | BR 987260 | A | 19980220 | 200033 | |
| | | | WO 98EP971 | A | 19980220 | | |
| BR 9807847 | A | 20000829 | BR 987847 | A | 19980220 | 200046 | |
| | | | WO 98EP968 | A | 19980220 | | |
| MX 9907727 | A1 | 20000401 | MX 997727 | A | 19990820 | 200124 | |
| MX 9907732 | A1 | 20000401 | MX 997732 | A | 19990820 | 200124 | |
| AU 732190 | B | 20010412 | AU 9867223 | A | 19980220 | 200128 | |
| KR 2000075557 | A | 20001215 | WO 98EP968 | A | 19980220 | 200131 | |
| | | | KR 99707617 | A | 19990821 | | |
| KR 2000075560 | A | 20001215 | WO 98EP971 | A | 19980220 | 200131 | |
| | | | KR 99707620 | A | 19990821 | | |
| JP 2001511687 | W | 20010814 | JP 98536262 | A | 19980220 | 200154 | |
| | | | WO 98EP971 | A | 19980220 | | |
| JP 2001523989 | W | 20011127 | JP 98536259 | A | 19980220 | 200204 | |
| | | | WO 98EP968 | A | 19980220 | | |
| US 6400989 | B1 | 20020604 | WO 98EP968 | A | 19980220 | 200242 | |
| | | | US 2000367030 | A | 20000530 | | |
| AU 747686 | B | 20020516 | AU 9868220 | A | 19980220 | 200244 | |
| NZ 337392 | A | 20020628 | NZ 337392 | A | 19980220 | 200252 | |
| | | | WO 98EP971 | A | 19980220 | | |
| NZ 337366 | A | 20020628 | NZ 337366 | A | 19980220 | 200252 | |
| | | | WO 98EP968 | A | 19980220 | | |

Priority Applications (No Type Date): DE 1007046 A 19970221

Patent Details:

| Patent No | Kind | Lan | Pg | Main IPC | Filing Notes |
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| DE 19707046 | A1 | | 17 | A61F-002/02 | |
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| WO 9836793 | A2 | G | | A61N-001/00 | |
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Designated States (National): AM AT AU BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GM GW HU IL JP KE KG KP KR KZ LC LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TT UA US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

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| WO 9836795 | A1 | G | | A61N-001/36 | |
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Designated States (National): AM AT AU BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GM GW HU IL JP KE KG KP KR KZ LC LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TT UA US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

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| WO 9837691 | A1 | G | | H04N-005/232 | |
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Designated States (National): AM AT AU BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GM GW HU IL JP KE KG KP KR KZ LC LK LR LT LU LV MD MG MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TT UA US UZ VN YU ZW

Designated States (Regional): AT BE CH DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

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| AU 9864990 | A | | | H04N-005/232 | Based on patent WO 9837691 |
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| AU 9867223 | A | | | A61N-001/36 | Based on patent WO 9836795 |
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| AU 9868220 | A | | | A61N-001/00 | Based on patent WO 9836793 |
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| EP 969896 | A2 | G | | A61N-001/00 | Based on patent WO 9836793 |
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE SI

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| DE 19880174 | T | | | H04N-005/232 | Based on patent WO 9837691 |
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| EP 971770 | A1 | G | | A61N-001/36 | Based on patent WO 9836795 |
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Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE SI

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| BR 9807260 | A | | | A61N-001/00 | Based on patent WO 9836793 |
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| BR 9807847 | A | | | A61F-002/02 | Based on patent WO 9836795 |
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| MX 9907727 | A1 | | | A61N-001/00 | |
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| MX 9907732 | A1 | | | A61N-001/36 | |
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| AU 732190 | B | | | A61N-001/36 | Previous Publ. patent AU 9867223 |
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Based on patent WO 9836795

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| KR 2000075557 | A | | | A61N-001/36 | Based on patent WO 9836795 |
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| KR 2000075560 | A | | | A61N-001/00 | Based on patent WO 9836793 |
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| JP 2001511687 | W | | 25 | A61N-001/36 | Based on patent WO 9836793 |
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| JP 2001523989 | W | | 34 | A61F-009/08 | Based on patent WO 9836795 |
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| US 6400989 | B1 | | | A61N-001/18 | Based on patent WO 9836795 |
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| AU 747686 | B | | | A61N-001/00 | Previous Publ. patent AU 9868220 |
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Based on patent WO 9836793

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| NZ 337392 | A | | | A61N-001/36 | Based on patent WO 9836793 |
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| NZ 337366 | A | | | G06F-017/00 | Based on patent WO 9836795 |
|-----------|---|--|--|-------------|----------------------------|

Abstract (Basic): DE 19707046 A

The encoder has the signals provided by a photosensor array fed to a stimulation and registration interface, provided by an implanted microcontact structure, via adjustable receptive field characteristic filters. The latter receive signals provided by the stimulation and registration interface, for providing an active vision function. The photosensor array may be incorporated in a spectacles frame, with image tracking movement controlled via head and eye movement detectors.

USE - For **neuroprosthetic** retina implant for blind patient, for night vision etc.

ADVANTAGE - Autonomous object detection and following.

Dwg.1/3

Title Terms: ENCODE; VISUAL; ACTIVE; VISION; ADJUST; RECEPTIVE; FIELD; CHARACTERISTIC; FILTER; INSERT; SIGNAL; PATH; PHOTSENSOR; ARRAY; IMPLANT ; STIMULATING; REGISTER; INTERFACE

Derwent Class: P32; P34; S05; T01; W03; W04

International Patent Class (Main): A61F-002/02; A61F-009/08; A61N-001/00;

A61N-001/18; A61N-001/36; G06F-017/00; H04N-005/232

International Patent Class (Additional): A61F-002/14; A61F-002/18;

A61F-002/48; A61F-011/04; G05B-015/02; G06F-015/18; G06F-019/00;
H04N-005/14
File Segment: EPI; EngPI

10/5/6 (Item 6 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2002 WIPO/Univentio. All rts. reserv.

00954399 **Image available**

METHOD FOR WEAVING AN AIRBAG
PROCEDE DE TISSAGE D'UN SAC GONFLABLE
VERFAHREN ZUM WEBEN EINES LUFTSACKS

Patent Applicant/Assignee:

BERGER SEIBA-TECHNOTEX VERWALTUNGS GMBH & CO, Ballyweg 5, 79713 Bad
Sackingen, DE, DE (Residence), DE (Nationality), (For all designated
states except: US)

Patent Applicant/Inventor:

ESCHBACH Thomas, Rheinpromenade 10, 79790 Rheinheim, DE, DE (Residence),
DE (Nationality), (Designated only for: US)

BECKER Michael, Adelsberg 11, 79669 Zell im Wiesental, DE, DE
(Residence), DE (Nationality), (Designated only for: US)

Legal Representative:

FISCHER Matthias (et al) (agent), Wolfratshauser Strasse 145, 81479
Munchen, DE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200288443 A1 20021107 (WO 0288443)

Application: WO 2002EP3629 20020402 (PCT/WO EP0203629)

Priority Application: DE 10115890 20010330

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR

KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU

SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: D03D-001/02

International Patent Class: B60R-021/16

Publication Language: German

Filing Language: German

English Abstract

Disclosed is a method for weaving a single-pieced airbag (2) or air tube
consisting of at least two layers on a mechanical loom, characterized in
that weft yarns of different strengths are woven in at least one layer.

French Abstract

L'invention concerne un procede de tissage d'un sac gonflable (2) ou
d'une chambre a air bicouche d'une seule piece sur un metier a tissier,
ledit procede etant caracterise en ce que, dans une couche au moins, des
fils de trame de grosseurs differentes sont tisses.

German Abstract

Es wird Verfahren zum Weben eines wenigstens zweilagigen, einstueckigen
Luftsacks (2) oder Luftschlauchs auf einer Webmaschine vorgeschlagen, das
durch gekennzeichnet ist, dass in wenigstens einer Lage Schussfaden
unterschiedlicher Starke verwebt werden.

Legal Status (Type, Date, Text)

Publication 20021107 A1 With international search report.

Publication 20021107 A1 Before the expiration of the time limit for
amending the claims and to be republished in the
event of the receipt of amendments.

| Set | Items | Description |
|-----|-------|---|
| S1 | 16 | AU='ECKMILLER R':AU='ECKMILLER ROLF PROF DR' |
| S2 | 5 | AU='HUNERMANN R':AU='HUNERMANN RALPH' |
| S3 | 286 | AU='BECKER M' |
| S4 | 85 | AU='BECKER MICHAEL':AU='BECKER MICHAEL J' |
| S5 | 46 | AU='BECKER MICHAEL J 925 N STERLING':AU='BECKER MICHAEL WI- |

LLIAM'

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| S6 | 427 | S1 OR S2 OR S3 OR S4 OR S5 |
| S7 | 11 | S6 AND (NEURO? OR NEURAL) |
| S8 | 12 | S6 AND (NEURO? OR NEURAL?) |
| S9 | 12 | IDPAT (sorted in duplicate/non-duplicate order) |
| S10 | 6 | IDPAT (primary/non-duplicate records only) |

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